

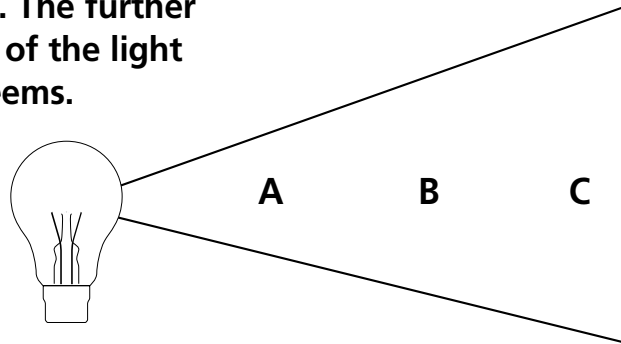


Name: Form:

See pages 20 and 21 of *How we see things*

Why distant things look dim and small

Light spreads out from an object. The further from the object you are, the less of the light you receive and the dimmer it seems.



Q1. (i) How much further is B away from the light source compared to A – twice as far, four times as far, ten times as far?



(ii) How much further is C away from the light source compared to A – twice as far, three times as far, four times as far?



(iii) How much light does an eye at B receive compared to an eye at A?



(iv) How much light does an eye at C receive compared to an eye at A?



Q2. Which planet in the Solar System receives the most sunlight? 

Q3. On which planet does the Sun appear hardly brighter than any other star?



Q4. If you could travel on a spaceship across the Universe:

(i) How would the Sun appear to change as you left it behind?



(ii) How might some of the other stars appear to change? Explain your answer.



